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CHURA CHAMBI, MARIA APARECIDA PIRES CAMILLO, TETSUO YAMANE,

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EXPRESSION OF GYROXIN-LIKE IN CHO-DHFR⁻ CELLS.

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Gyroxin is a glycosylated multi-functional serine protease present in *C. d. terrificus* venom and belongs to Snake Venom Thrombin-Like Enzyme (SVTLE) family. Some SVTLEs are currently been used clinically for the treatment of thrombotic diseases and has a potential tissue sealant activity. The aim of the present work was to express the gyroxin in mammalian cells (CHO-DHFR⁻) in order to obtain its correct folding and proper posttranslational modifications. To accomplish this goal the gyroxin sequence coding to mature toxin (238 amino acids and 6 S-S bounds), was cloned into a dicistronic expression vector (pED) carrying a signal peptide to promote the protein secretion into the medium. CHO-DHFR⁻ cells were transfected and the level of methotrexate (MTX) in the culture medium was raised stepwisely, promoting gene amplification and increasing expression levels of the recombinant protein. Analysis using RT-PCR of some clones with and without MTX revealed the presence of DHFR and gyroxin mRNA. Western Blotting analysis is being performed to detect the gyroxin protein.

KEY WORDS: gyroxin, expression, *Crotalus*, serine protease, mammalian cells.

FINANCIAL SUPPORT: FAPESP, CNPq, CAPES.

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Resultado da Avaliação de Trabalho

The presentation(s) indicated bellow was(were) accepted for presentation during the XXXVI Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology - SBBq, which will take place in Salvador, Bahia, Brazil, May 21-25, 2007.

The abstracts submitted to the XXXVI Annual Meeting of SBBq were rigorously analyzed by two reviewers. The scientific content of the abstract was evaluated, including: originality, relevance, quantity of results, besides the composition

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PARTICIPATION CERTIFICATE

We hereby certify that CAMILA MIYAGUI YONAMINE attended the XXXVI Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq) and 10th International Union of Biochemistry and Molecular Biology (IUBMB) Conference "Infectious Diseases: Biochemistry of Parasites, Vectors and Hosts" in the Convention Center of Salvador, Bahia, Brazil, and presented the abstract entitled: EXPRESSION OF GYROXIN-

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